

SEQUENCE LISTING

<110> Cuevas, William A.
Kumar, Manoj

<120> Use of Repeat Sequence Protein Polymers in Personal Care Compositions

<130> DOC 0057 PA / GC792-4 / DC 5074

<150> 60/454,077

<151> 2003-03-12

<160> 31

<170> PatentIn version 3.2

<210> 1

<211> 6

<212> PRT

<213> Unknown

<220>

<223> silk-like protein

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<210> 2

<211> 53

<212> PRT

<213> Unknown

<220>

<223> silk fibroin protein

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Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
20 25 30

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
35 40 45

Gly Ala Ala Gly Tyr
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<223> Elastin-like protein

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<223> Byssus-like protein

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Gly Pro Gly Gly Gly
1 5

<210> 6
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Pro Gly Gln Gly Gln Gln
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<210> 7
<211> 9
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<400> 7

Gly Tyr Tyr Pro Thr Ser Pro Gln Gln
1 5

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Gly Gln Gln
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<211> 28
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<220>
<223> Titin-like protein

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Pro Pro Ala Lys Val Pro Glu Val Pro Lys Lys Pro Val Pro Glu Glu
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Lys Val Pro Val Pro Val Pro Lys Lys Pro Glu Ala
20 25

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<220>
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<400> 10

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1 5 10

<210> 11
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Fibronectin-like protein

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Arg Gly Asp Ser
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<210> 12
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Gliadin

<400> 12

Pro Gln Gln Pro Tyr
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<210> 13
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Glue polypeptide

<400> 13

Pro Thr Thr Thr Lys
1 5

<210> 14
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Ice nucleating protein

<400> 14

Ala Gly Tyr Gly Ser Thr Gly Thr
1 5

<210> 15
<211> 8
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<213> Unknown

<220>
<223> Keratin

<400> 15

Tyr Gly Gly Ser Ser Gly Gly Gly
1 5

<210> 16
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Keratin

<400> 16

Phe Gly Gly Gly Ser
1 5

<210> 17

<211> 6

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<213> Unknown

<220>

<223> Mucin

<400> 17

Thr Thr Thr Pro Asp Val
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<210> 18

<211> 7

<212> PRT

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<220>

<223> RNA polymerase II

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Tyr Ser Pro Thr Ser Pro Ser
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<223> SELP 47K

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Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val
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Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro
20 25 30

Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro
35 40 45

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
50 55 60

Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly
65 70 75 80

Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Pro
 85 90 95
 Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro Gly Ala Gly Ala
 100 105 110
 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
 115 120 125
 Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 130 135 140
 Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Pro Gly Val Gly Pro
 145 150 155 160
 Gly Val Gly Pro Gly Val Gly Pro Gly Ala Gly Ala Gly Ser Gly Ala
 165 170 175
 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
 180 185 190
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 195 200 205
 Lys Gly Val Pro Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro
 210 215 220
 Gly Val Gly Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
 225 230 235 240
 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val
 245 250 255
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro
 260 265 270
 Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro
 275 280 285
 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
 290 295 300
 Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly
 305 310 315 320
 Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Pro
 325 330 335

Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro Gly Ala Gly Ala
340 345 350

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
355 360 365

Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
370 375 380

Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Pro Gly Val Gly Pro
385 390 395 400

Gly Val Gly Pro Gly Val Gly Pro Gly Ala Gly Ala Gly Ser Gly Ala
405 410 415

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
435 440 445

Lys Gly Val Pro Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro
450 455 460

Gly Val Gly Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
465 470 475 480

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val
485 490 495

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro
500 505 510

Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro
515 520 525

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
530 535 540

Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly
545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Pro
565 570 575

Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro Gly Ala Gly Ala
580 585 590

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
595 600 605

Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
610 615 620

Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Pro Gly Val Gly Pro
625 630 635 640

Gly Val Gly Pro Gly Val Gly Pro Gly Ala Gly Ala Gly Ser Gly Ala
645 650 655

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
660 665 670

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
675 680 685

Lys Gly Val Pro Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro
690 695 700

Gly Val Gly Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
705 710 715 720

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val
725 730 735

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro
740 745 750

Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro
755 760 765

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
770 775 780

<210> 20
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<213> Unknown

<220>
<223> Abductin-like protein

<220>
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<222> (2)..(2)
<223> X = any amino acid

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<221> MISC_FEATURE
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<223> X = any amino acid

<400> 20

Gly Xaa Xaa

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<210> 21
<211> 39
<212> DNA
<213> Unknown

<220>
<223> Primer 5' to 3' Glutamic Acid conversion

<400> 21
gggagttggt gtacctggag aaggtgttcc gggggtagg

39

<210> 22
<211> 39
<212> DNA
<213> Unknown

<220>
<223> Primer 3' to 5' Glutamic Acid conversion

<400> 22
ccctcaacca catggacctc ttccacaagg ccccatcc

39

<210> 23
<211> 39
<212> DNA
<213> Unknown

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<223> Primer 5' to 3' Arginine Conversion

<400> 23
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<211> 39
<212> DNA
<213> Unknown

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<223> Primer 3' to 5' Arginine Conversion

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<223> SELP 47E-13

<400> 25

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Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro
20 25 30

Met Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
35 40 45

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
50 55 60

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val
65 70 75 80

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
85 90 95

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
100 105 110

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
115 120 125

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val
130 135 140

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
145 150 155 160

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
165 170 175

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
180 185 190

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val
195 200 205

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
210 215 220

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
225 230 235 240

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
245 250 255

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val
260 265 270

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
275 280 285

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
290 295 300

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
305 310 315 320

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val
325 330 335

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
340 345 350

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
355 360 365

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
370 375 380

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val
385 390 395 400

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
405 410 415

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
435 440 445

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val
450 455 460

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
465 470 475 480

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
485 490 495

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
500 505 510

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val
515 520 525

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
530 535 540

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
545 550 555 560

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
565 570 575

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val
580 585 590

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
595 600 605

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
610 615 620

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
625 630 635 640

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val
645 650 655

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
660 665 670

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
675 680 685

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
690 695 700

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val
705 710 715 720

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
725 730 735

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
740 745 750

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
755 760 765

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val
770 775 780

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
785 790 795 800

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
805 810 815

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
820 825 830

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val
835 840 845

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
850 855 860

Ala Gly Ala Met Asp Pro Gly Arg Tyr Gln Asp Leu Arg Ser His His
865 870 875 880

His His His His

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<212> PRT
<213> Unknown

<220>
<223> SELP 47R-3

<400> 26

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1 5 10 15

Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro
20 25 30

Met Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly
35 40 45

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
50 55 60

Pro Gly Arg Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
65 70 75 80

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
85 90 95

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly
100 105 110

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
115 120 125

Pro Gly Arg Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
130 135 140

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
145 150 155 160

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly
165 170 175

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
180 185 190

Pro Gly Arg Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
195 200 205

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
210 215 220

Ser Gly Ala Gly Ala Met Asp Pro Gly Arg Tyr Gln Asp Leu Arg Ser
225 230 235 240

His His His His His His
245

<210> 27
<211> 244
<212> PRT
<213> Unknown

<220>
<223> SELP 47K-3

<400> 27

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1 5 10 15

Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro
20 25 30

Met Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
35 40 45

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
50 55 60

Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
65 70 75 80

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
85 90 95

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
100 105 110

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
115 120 125

Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
130 135 140

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
145 150 155 160

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro
165 170 175

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
180 185 190

Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
195 200 205

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
210 215 220

Ala Gly Ala Met Asp Pro Gly Arg Tyr Gln Asp Leu Arg Ser His His
225 230 235 240

His His His His

<210> 28
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<213> Unknown

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<223> SELP 47E-3

<400> 28

Met Asp Pro Val val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val
1 5 10 15

Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro
20 25 30

Met Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly
35 40 45

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
50 55 60

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
65 70 75 80

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
85 90 95

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly
100 105 110

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
115 120 125

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
130 135 140

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
145 150 155 160

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly
165 170 175

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
180 185 190

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
195 200 205

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
210 215 220

Ser Gly Ala Gly Ala Met Asp Pro Gly Arg Tyr Gln Asp Leu Arg Ser
225 230 235 240

His His His His His His
245

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 <223> Collagen-like protein

<400> 29

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Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro
 20 25 30

Met Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala His Gly Pro Ala
 35 40 45

Gly Pro Lys Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly
 50 55 60

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala
 65 70 75 80

Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly
 85 90 95

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
 100 105 110

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
 115 120 125

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln
 130 135 140

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly
 145 150 155 160

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro
 165 170 175

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala
 180 185 190

Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly
 195 200 205

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala
210 215 220

Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly
225 230 235 240

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
245 250 255

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala His Gly Pro
260 265 270

Ala Gly Pro Lys Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala His
275 280 285

Gly Pro Ala Gly Pro Lys Gly Ala His Gly Pro Ala Gly Pro Lys Gly
290 295 300

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro
305 310 315 320

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala
325 330 335

Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly
340 345 350

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala
355 360 365

Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly
370 375 380

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
385 390 395 400

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
405 410 415

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln
420 425 430

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly
435 440 445

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro
450 455 460

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala
465 470 475 480

Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly
485 490 495

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala
500 505 510

Gln Gly Pro Ala Gly Pro Gly Gly Ala His Gly Pro Ala Gly Pro Lys
515 520 525

Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala His Gly Pro Ala Gly
530 535 540

Pro Lys Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala Gln Gly Pro
545 550 555 560

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln
565 570 575

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly
580 585 590

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro
595 600 605

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala
610 615 620

Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly
625 630 635 640

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala
645 650 655

Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly
660 665 670

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
675 680 685

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
690 695 700

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln
705 710 715 720

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly
725 730 735

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro
740 745 750

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala
755 760 765

Gly Pro Gly Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala His Gly
770 775 780

Pro Ala Gly Pro Lys Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala
785 790 795 800

His Gly Pro Ala Gly Pro Lys Gly Ala Gln Gly Pro Ala Gly Pro Gly
805 810 815

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
820 825 830

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
835 840 845

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln
850 855 860

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly
865 870 875 880

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro
885 890 895

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala
900 905 910

Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly
915 920 925

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala
930 935 940

Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly
945 950 955 960

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
965 970 975

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
980 985 990

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln
995 1000 1005

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly
1010 1015 1020

Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala His Gly Pro Ala
1025 1030 1035

Gly Pro Lys Met Asp Pro Gly Arg Tyr Gln Leu Ser Ala Gly Arg
1040 1045 1050

Tyr His Tyr Gln Leu Val Trp Cys Gln Lys
1055 1060

<210> 30
<211> 1038
<212> PRT
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<220>
<223> SELP 67K

<400> 30

Met Asp Pro Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val
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Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro
20 25 30

Met Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
35 40 45

Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly
50 55 60

Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly
65 70 75 80

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
85 90 95

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly
100 105 110

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
115 120 125

Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
130 135 140

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
145 150 155 160

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
165 170 175

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val
180 185 190

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly
195 200 205

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
210 215 220

Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
225 230 235 240

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
245 250 255

Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
260 265 270

Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val
275 280 285

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly
290 295 300

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
305 310 315 320

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
325 330 335

Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
340 345 350

Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly
355 360 365

Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly
370 375 380

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
385 390 395 400

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly
405 410 415

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
420 425 430

Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
435 440 445

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
450 455 460

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
465 470 475 480

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val
485 490 495

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly
500 505 510

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
515 520 525

Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
530 535 540

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
545 550 555 560

Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
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Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val
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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly
595 600 605

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
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Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
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Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
645 650 655

Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly
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Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly
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Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
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Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly
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Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
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val Gly Val Pro Gly val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly
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Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val
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Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
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Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
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Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly
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Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
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Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly
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Val Trp Cys Gln Lys
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